

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 2, 7 and 8, cancel claims 15-20 and 74-79, and add new claims 80-111 as indicated below. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A communication system comprising:
a medical device ~~having a communication module;~~
a two-way communication network that includes a point-of-presence on a data network;
and
a remote monitoring service,
wherein the remote monitoring service is configured to send a communication to the ~~medical device using the point-of-presence of the two-way communication network via the data network, the communication including an instruction for the medical device to perform a status assessment of at least one medical device parameter when the medical device is not in use, and~~
wherein, in response to receiving the communication from the remote monitoring service,
the two-way communication network is configured to send a communication to the medical device, the communication including an instruction for the medical device to perform a status assessment of at least one medical device parameter when the medical device is not in use,
wherein the medical device is configured to obtain status assessment information and send a return communication back to the ~~remote monitoring service using the two-way communication network, the return communication including the status assessment, and~~
wherein, in response to receiving the return communication from the medical device, the two-way communication network is configured to provide the status assessment to the remote monitoring service via the data network.

Claim 2 (Currently Amended): The system as recited in Claim 1, wherein the medical device is a portable defibrillator.

Claim 3 (Original): The system as recited in Claim 1, wherein the two-way communication network includes a wireless communication network.

Claim 4 (Original): The system as recited in Claim 3, wherein the two-way communication wireless network includes a specialized mobile radio network.

Claim 5 (Original): The system as recited in Claim 1, wherein the two-way communication network includes a two-way paging network.

Claim 6 (Original): The system as recited in Claim 1, wherein the two-way communication network includes a wired digital data network.

Claim 7 (Currently Amended): The system as recited in Claim 1, wherein the medical device comprises:

- a controller with a memory;
- a two-way communication module coupled to the controller,
- wherein the controller and two-way communication module are configured to receive and process communications sent to the medical device by the ~~remote monitoring service over the two-way communication network~~ and further configured to send return communications to the ~~remote monitoring service over the two-way communication network~~.

Claim 8 (Currently Amended): The system as recited in Claim 1, wherein the remote monitoring service comprises:

- a control unit, wherein the control unit is configured to selectively initiate a communication to the ~~medical device using the two-way communication network~~ point of presence via the data network;
- an interface coupled to the control unit, wherein the interface is configured to support communication between the control unit and the ~~two-way communication network~~ point-of-presence; and
- a user interface having a display coupled to the control unit, the user interface being configured to support transfer of information between a user and the control unit.

Claim 9 (Original): The system as recited in Claim 1, wherein the status assessment is a medical device power supply voltage level.

Claim 10 (Withdrawn): A communication system comprising:
a medical device having a communication module;
a two-way communication network; and
a remote monitoring service,
wherein the remote monitoring service is configured to send a communication to the medical device using the two-way communication network, the communication including software update information to update software stored in the medical device, and wherein, in response to receiving the communication, the medical device is configured to update the software stored in the medical device in response to receiving the software update information.

Claim 11 (Withdrawn): The system as recited Claim 10, wherein the medical device is a portable defibrillator.

Claim 12 (Withdrawn): The system as recited in Claim 10, wherein the two-way communication network includes a wireless communication network.

Claim 13 (Withdrawn): The system as recited in Claim 10, wherein the two-way communication network includes a wired communication network.

Claim 14 (Withdrawn): The system as recited in Claim 10, wherein the medical device is further configured to send a return communication once the software update has been complete.

Claim 15-20 (Canceled).

Claim 21 (Withdrawn): A method for a remote monitoring service to communicate with a medical device having software using a two-way communication network, the method comprising:

initiating a communication from the remote monitoring service to the medical device using the two-way communication network, the communication including software update information to update software stored in the medical device;

receiving the communication in the medical device;

performing a software update with the software update information in response to receiving the communication in the medical device.

Claim 22 (Withdrawn): The method as recited in Claim 21 further comprising sending a return communication from the medical device to the remote monitoring service utilizing the two-way communication network, wherein the return communication includes information about the software update has been completed.

Claim 23 (Withdrawn): The method as recited in Claim 21, wherein the medical device is a portable defibrillator.

Claim 24 (Withdrawn): The method as recited in Claim 21, wherein the two-way communication network includes a wireless communication network.

Claim 25 (Withdrawn): The method as recited in Claim 24, wherein the two-way communication wireless network includes an analog cellular telephony network.

Claim 26 (Withdrawn): The method as recited in Claim 21, wherein the two-way communication network includes a two-way paging network.

Claim 27 (Withdrawn): The method as recited in Claim 21, wherein the two-way communication network includes a specialized mobile radio network.

Claim 28 (Withdrawn): A defibrillator comprising:

- a power source;
- a charging circuit coupled to the power source;
- an energy storage device coupled to the charging circuit;
- an output circuit coupled to the energy storage device;
- a pair of electrodes coupled to the output circuit;
- a two-way communication module; and
- a controller having a memory coupled to the two-way communication module, charging circuit and the output circuit, wherein the controller is configured to selectively cause the charging circuit to transfer energy from the power source to the energy storage device and to cause the output circuit to transfer energy from the energy storage device to the electrodes, and

wherein the controller is further configured to operate the two-way communication module to (i) receive a communication from a remote monitoring service via a two-way communication network, the communication including an instruction for the medical device to perform a status assessment of at least one medical device parameter when the medical device is not in use, and (ii) send a communication to the remote monitoring service via the two-way communication network, the communication including the requested status assessment information.

Claim 29 (Withdrawn): The defibrillator as recited in Claim 28, wherein the two-way communication network includes a wireless communication network.

Claim 30 (Withdrawn): The defibrillator as recited in Claim 29, wherein the two-way communication wireless network includes a non-licensed ISM-service network.

Claim 31 (Withdrawn): The defibrillator as recited in Claim 28, wherein the two-way communication network includes a fiber-optic network.

Claim 32 (Withdrawn): The defibrillator as recited in Claim 28, wherein the two-way communication network includes a digital data network.

Claim 33 (Withdrawn): The defibrillator as recited in Claim 28, wherein the medical device parameter includes software version information.

Claim 34 (Withdrawn): A defibrillator comprising:
a power source;
a charging circuit coupled to the power source;
an energy storage device coupled to the charging circuit;
an output circuit coupled to the energy storage device;
a pair of electrodes coupled to the output circuit;
a two-way communication module; and
a controller having a memory coupled to the two-way communication module, charging circuit and the output circuit, wherein the controller is configured to selectively cause the charging circuit to transfer energy from the power source to the energy storage device and to cause the output circuit to transfer energy from the energy storage device to the electrodes, and
wherein the controller is further configured to operate the two-way communication module to receive a communication from a remote monitoring service via a two-way communication network, the communication including software update information to update software stored in the controller memory, and
wherein the controller is further configured to perform the software update with the software update information in the communication.

Claim 35 (Withdrawn): The defibrillator as recited in Claim 34, wherein the controller is further configured to operate the two-way communication module to send information about the software update.

Claim 36 (Withdrawn): The defibrillator as recited in Claim 34, wherein the two-way communication network includes a wireless communication network.

Claim 37 (Withdrawn): The defibrillator as recited in Claim 34, wherein the two-way communication network includes a wired communication network.

Claim 38 (Withdrawn): A defibrillator comprising:

- a power source;
- a charging circuit coupled to the power source;
- an energy storage device coupled to the charging circuit;
- an output circuit coupled to the energy storage device;
- a pair of electrodes coupled to the output circuit;
- a two-way communication module;

defibrillator control means for selectively causing the charging circuit to transfer energy from the power source to the energy storage device and to cause the output circuit to transfer energy from the energy storage device to the electrodes; and

communication module control means, coupled to the two-way communication module, for receiving and processing a communication from a remote monitoring service via a two-way communication network, the communication including an instruction for the defibrillator to perform a status assessment of at least one defibrillator parameter when the defibrillator is not in use, and for sending a communication to the remote monitoring service via the two-way communication network, the communication including the requested status assessment information.

Claim 39 (Withdrawn): The defibrillator as recited Claim 38, wherein a processor and a memory are used to implement the defibrillator control means and communication module control means.

Claim 40 (Withdrawn): The defibrillator as recited in Claim 38, wherein the two-way communication network includes a wireless communication network.

Claim 41 (Withdrawn): The defibrillator as recited in Claim 38, wherein the two-way communication network includes a wired communication network.

Claim 42 (Withdrawn): The defibrillator as recited in Claim 38, wherein the status assessment includes counter information indicating a number of times the defibrillator has been utilized.

Claim 43 (Withdrawn): A defibrillator comprising:

- a power source;
- a charging circuit coupled to the power source;
- an energy storage device coupled to the charging circuit;
- an output circuit coupled to the energy storage device;
- a pair of electrodes coupled to the output circuit;
- a two-way communication module;

defibrillator control means for selectively causing the charging circuit to transfer energy from the power source to the energy storage device and to cause the output circuit to transfer energy from the energy storage device to the electrodes; and

communication module control means, coupled to the two-way communication module, for receiving and processing a communication from a remote monitoring service via a two-way communication network, the communication including software update information,

wherein the defibrillator control means further includes means for updating defibrillator software with the software update information included in the communication.

Claim 44 (Withdrawn): The defibrillator as recited in Claim 43, wherein the communication module control means further includes means for sending a communication to the remote monitoring service via the two-way communication network, the communication including information about the updating of the defibrillator software.

Claim 45 (Withdrawn): The defibrillator as recited in Claim 43, wherein a processor and a memory are used to implement the defibrillator control means and communication module control means.

Claim 46 (Withdrawn): The defibrillator as recited in Claim 43, wherein the two-way communication network includes a wireless communication network.

Claim 47 (Withdrawn): The defibrillator as recited in Claim 43, wherein the two-way communication network includes a wired network.

Claim 48 (Withdrawn): A communication device for use in conjunction with a medical device, a two-way communication network and a remote monitoring service, the communication device comprising:

a controller; and

a two-way communication circuit coupled to the controller,

wherein in response to a communication from the remote monitoring service using the two-way communication network, the communication including an instruction for the medical device to obtain a status assessment of at least one medical device parameter when the medical device is not in use, the communication device is configured to obtain the requested information from the medical device and send a return communication back to the remote monitoring service using the two-way communication network, the return communication including the status assessment requested information.

Claim 49 (Withdrawn): The communication device as recited Claim 48, wherein the communication circuit is in a separate unit external to the medical device, the separate unit being configured to be selectively coupled to the medical device.

Claim 50 (Withdrawn): The communication device as recited in Claim 48, wherein the two-way communication network includes a wireless communication network.

Claim 51 (Withdrawn): The communication device as recited in Claim 48, wherein the two-way communication network includes a wired communication network.

Claim 52 (Withdrawn): A communication device for use in conjunction with a medical device having software, a two-way communication network and a remote monitoring service, the communication device comprising:

a controller; and

a two-way communication circuit coupled to the controller,

wherein in response to a communication from the remote monitoring service using the two-way communication network, the communication including software update information for the medical device, the communication device is configured to instruct the medical device to perform a software update.

Claim 53 (Withdrawn): The communication device as recited Claim 52, wherein the communication circuit is in a separate unit external to the medical device, the separate unit being configured to be selectively coupled to the medical device.

Claim 54 (Withdrawn): The communication device as recited in Claim 52, wherein the communication device is further configured to send a return communication from the medical device about the software update.

Claim 55 (Withdrawn): The communication device as recited in Claim 52, wherein the medical device is a defibrillator.

Claim 56 (Withdrawn): The communication device as recited in Claim 52, wherein the two-way communication network includes a wireless communication network.

Claim 57 (Withdrawn): The communication device as recited in Claim 52, wherein the two-way communication network includes a wired communication network.

Claim 58 (Withdrawn): A communication system comprising:
 a medical device having a two-way communication module;
 a communication network;
 a remote monitoring service;
 wherein the remote monitoring service is configured to send a communication to the medical device via the communication network using a first communication medium, the communication including a request for information from the medical device; and
 wherein in response to receiving a communication, the medical device is configured to obtain the requested information and send a return communication to the remote monitoring service via the communication network utilizing a second communication medium, wherein the first and second communication mediums are different.

Claim 59 (Withdrawn): The system as recited in Claim 58, wherein the medical device is a portable defibrillator.

Claim 60 (Withdrawn): The system as recited in Claim 58, wherein the communication from the remote monitoring service includes an instruction for the medical device to perform a self-test, and wherein the medical device is configured to perform the requested self-test in response to the instruction.

Claim 61 (Withdrawn): The system as recited in Claim 58, wherein the communication from the remote monitoring service includes an instruction for the medical device to perform a status assessment of at least one medical device parameter when the medical device is not in use, and wherein in response to receiving the communication, the medical device is configured to obtain the requested communication and send a return communication to the remote monitoring service.

Claim 62 (Withdrawn): The system as recited in Claim 58, wherein the communication from the remote monitoring service includes configuration information to update a software configuration of the medical device, and wherein the medical device is configured to update its software configuration in response to receiving the configuration information.

Claim 63 (Withdrawn): The system as recited in Claim 58, wherein the communication from the remote monitoring service includes software update information to update software stored in the medical device, and wherein, in response to receiving the communication, the medical device is configured to update the software stored in the medical device in response to receiving the software update information.

Claim 64 (Withdrawn): The system as recited in Claim 58, wherein the medical device is further configured to autonomously obtain medical device information and send a return communication to the remote monitoring service using the communication network, the return communication including the medical device information, the medical device information including self-test, status assessment or configuration information.

Claim 65 (Withdrawn): The system as recited in Claim 58, wherein the medical device further includes:

- a controller with a memory;
- a two-way communication module coupled to the controller;
- wherein the controller and the two-way communication module are configured to receive and process communication sent to the medical device by the remote monitoring service over the communication network and further configured to send return communications to the remote monitoring service via the communication network utilizing the second communication method.

Claim 66 (Withdrawn): The system as recited in Claim 58, wherein the remote monitoring service comprises:

- a control unit, wherein the control unit is configured to selectively initiate a communication to the medical device using the communication network;
- an interface coupled to the control unit wherein the interface is configured to support communication between the control unit and the communication network; and
- a user interface having the display coupled to the control unit, user interface being configured to support the transfer of information between a user and a control unit.

Claim 67 (Withdrawn): The system as recited in Claim 58 further comprising a location or navigation subsystem coupled to the controller, wherein the controller and the location or navigation subsystem are configured to provide information indicative of a location of the medical device to the remote monitoring service using the communication network.

Claim 68 (Withdrawn): The system as recited in Claim 67, wherein the location or navigation subsystem is a global positioning system module.

Claim 69 (Withdrawn): The system as recited in Claim 58, wherein the medical device comprises a independent subsystem, the independent system including a two-way communication module, and wherein the requested information is related to the status of the independent subsystem.

Claim 70 (Withdrawn): The system as recited in Claim 68, wherein the independent subsystem comprises a battery for providing power to the medical devices.

Claim 71 (Withdrawn): The system as recited in Claim 58, wherein the remote monitoring service is configured to send a communication to the medical device by communicating with the communication network through a data network.

Claim 72 (Withdrawn): The system as recited in Claim 58, wherein the remote monitoring service configured to send a communication to the medical device by communicating with the communication network through a wireless network.

Claim 73 (Withdrawn): The system as recited in Claim 58, wherein the medical device is configured to send a communication to the remote monitoring service by communicating with the communication network through a wireless network.

Claims 74-79 (Canceled)

Claim 80 (New): The system as recited in Claim 1, wherein the communication sent from the remote monitoring service to the two-way communication network includes the instruction for the medical device.

Claim 81 (New): The system as recited in Claim 1, wherein the point-of-presence comprises a Web site.

Claim 82 (New): The system as recited in Claim 1, wherein the remote monitoring service retrieves the status assessment from the two-way communication network via the data network and the point-of-presence.

Claim 83 (New): The system as recited in Claim 82, wherein the two-way communication network stores the status assessment for retrieval by the remote monitoring service.

Claim 84 (New): The system as recited in Claim 1, wherein the two-way communication network sends an email to the remote monitoring service, the email including the status assessment.

Claim 85 (New): A communication system comprising:
a medical device;
a two-way communication network that includes a point-of-presence on a data network;
and
a remote monitoring service,
wherein the medical device performs a status assessment of at least one medical device parameter when the medical device is not in use, and sends a communication to the two-way communication network that includes the status assessment, and
wherein the two-way communication network provides the status assessment to the remote monitoring service via the data network.

Claim 86 (New): The system as recited in Claim 85, wherein the medical device is a portable defibrillator.

Claim 87 (New): The system as recited in Claim 85, wherein the two-way communication network includes a specialized mobile radio network.

Claim 88 (New): The system as recited in Claim 85, wherein the two-way communication network includes a two-way paging network.

Claim 89 (New): The system as recited in Claim 85, wherein the status assessment is a medical device power supply voltage level.

Claim 90 (New): The system as recited in Claim 85, wherein the point-of-presence comprises a Web site.

Claim 91 (New): The system as recited in Claim 85, wherein the remote monitoring service retrieves the status assessment from the two-way communication network via the data network and the point-of-presence.

Claim 92 (New): The system as recited in Claim 91, wherein the two-way communication network stores the status assessment for retrieval by the remote monitoring service.

Claim 93 (New): The system as recited in Claim 85, wherein the two-way communication network sends an email to the remote monitoring service, the email including the status assessment.

Claim 94 (New): A method comprising:

receiving a communication from a medical device at a two-way communication network, wherein the communication includes a status assessment of at least one medical device parameter, and the two-way communication network includes a point-of-presence on a data network;

providing the status assessment to a remote monitoring service via the point-of-presence and the data network.

Claim 95 (New): The method as recited in Claim 94, wherein receiving a communication from a medical device comprises receiving a communication from a portable defibrillator.

Claim 96 (New): The method as recited in Claim 94, wherein the two-way communication network includes a specialized mobile radio network.

Claim 97 (New): The method as recited in Claim 94, wherein the two-way communication network includes a two-way paging network.

Claim 98 (New): The method as recited in Claim 94, wherein the status assessment is a medical device power supply voltage level.

Claim 99 (New): The method as recited in Claim 94, wherein the point-of-presence comprises a Web site.

Claim 100 (New): The method as recited in Claim 94, wherein providing the status assessment comprises storing the status assessment for retrieval by the remote monitoring service via the data network and the point-of-presence.

Claim 101 (New): The method as recited in Claim 94, wherein providing the status assessment comprises sending an email to the remote monitoring service, the email including the status assessment.

Claim 102 (New): The method as recited in Claim 94, further comprising:

receiving a communication from the remote monitoring service at the two-way communication network via the data network and the point-of-presence; and

sending a communication from the two-way communication network to the medical device in response to the communication received from the remote monitoring service, the communication including an instruction for the medical device to perform a status assessment of at least one medical device parameter when the medical device is not in use.

Claim 103 (New): The method as recited in Claim 102, wherein receiving a communication from the remote monitoring service comprises receiving a communication that includes the instruction for the medical device.

Claim 104 (New): A communication system comprising:
a medical device;
a point-of-presence on a data network for a two-way communication network; and
a remote monitoring service,
wherein the medical device performs a status assessment of at least one medical device parameter when the medical device is not in use, and sends a communication to the point-of-presence that includes the status assessment via the two-way communication network, and
wherein the point-of-presence provides the status assessment to the remote monitoring service via the data network.

Claim 105 (New): The system as recited in Claim 104, wherein the medical device is a portable defibrillator.

Claim 106 (New): The system as recited in Claim 104, wherein the two-way communication network includes a specialized mobile radio network.

Claim 107 (New): The system as recited in Claim 104, wherein the two-way communication network includes a two-way paging network.

Claim 108 (New): The system as recited in Claim 104, wherein the status assessment is a medical device power supply voltage level.

Claim 109 (New): The system as recited in Claim 104, wherein the point-of-presence comprises a Web site.

Claim 110 (New): The system as recited in Claim 104, wherein the remote monitoring service retrieves the status assessment from the point-of-presence via the data network.

Claim 111 (New): The system as recited in Claim 104, wherein the point-of-presence stores the status assessment for retrieval by the remote monitoring service.